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(71) Applicant (for all designated States except US): **UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED [GB/GB]; PO Box 497, 30-36 Newport Road, Cardiff, South Wales CF24 0DE (GB).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BENEDIKT, Johannes [DE/GB]; 2 Clarence Court, Pomeroy Street,**

Cardiff, South Wales CF10 5GT (GB). **TASKER, Paul, Juan [GB/GB]; 2 The Spinney, Aberthin, Cowbridge, South Wales CF71 7HW (GB).**

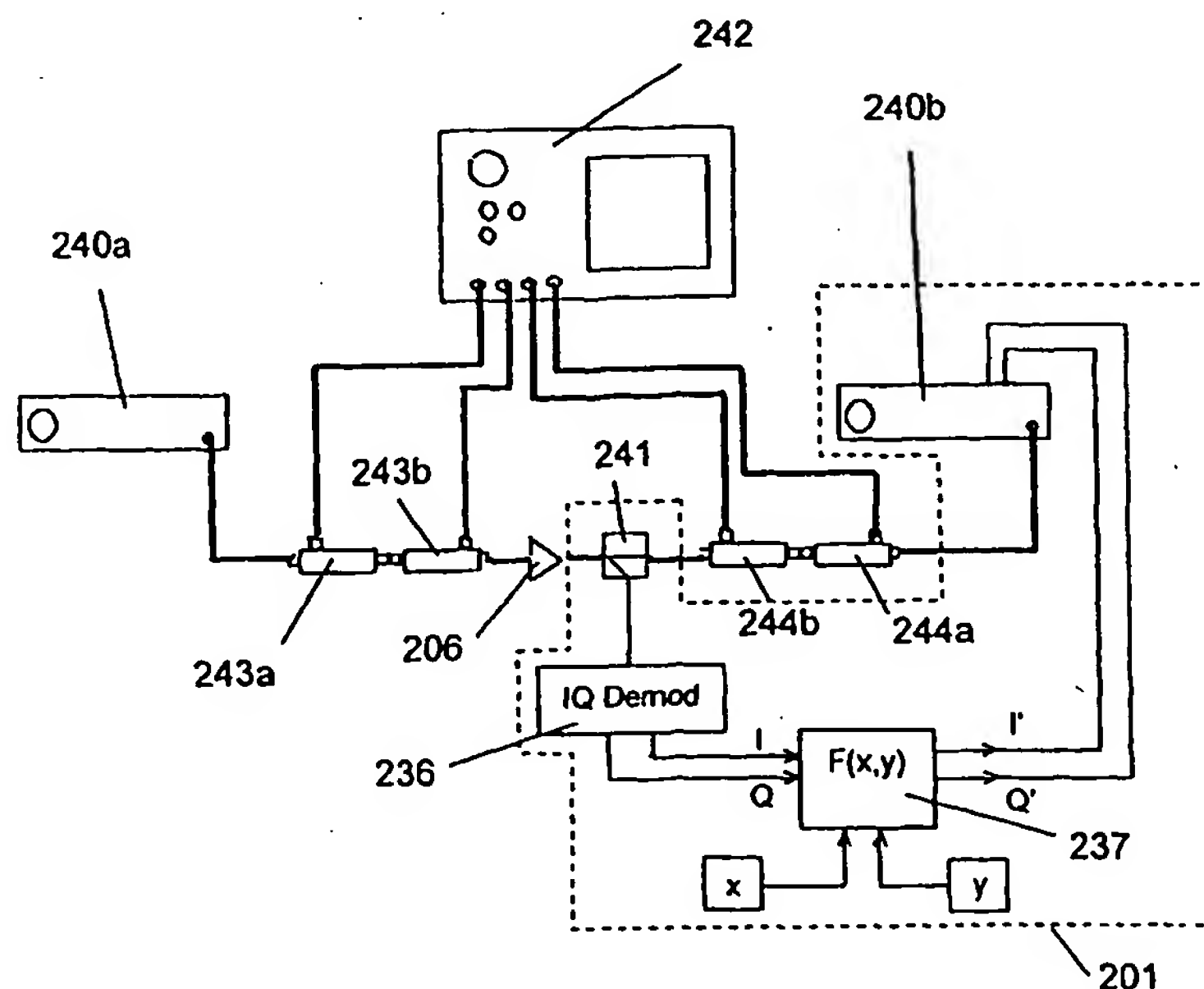
(74) Agents: **PEARSON, James, Ginn et al.; Abel & Imray, 20 Red Lion Street, London WC1R 4PQ (GB).**

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(54) Title: **HIGH FREQUENCY CIRCUIT ANALYSER**



(57) Abstract: An analyser for measuring the response of an electronic device (DUT 206) to an RF input signal from a signal generator (240a) is described. An active load pull circuit (201) is connected to the DUT 206, which receives an output signal from the DUT 206 and then feeds a modified signal back to the DUT 206. The signal is modified by a signal processing circuit (237) in view of input signals x, y to control the magnitude gain and phase change effected by the feedback circuit (237). Thus, positive feedback loops are avoided and better control of the analyser is permitted. A network analyser, or other signal measuring device (242), logs the waveforms (from which s-parameters derived) observed at ports of the DUT 206, thereby allowing the behaviour of the DUT 206 under various load conditions to be analysed.

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